

*Supplementary Information*

## Characterization of Drought Development through Remote Sensing: A Case Study in Central Yunnan, China. *Remote Sensing*, 2014, 6, 4998–5018

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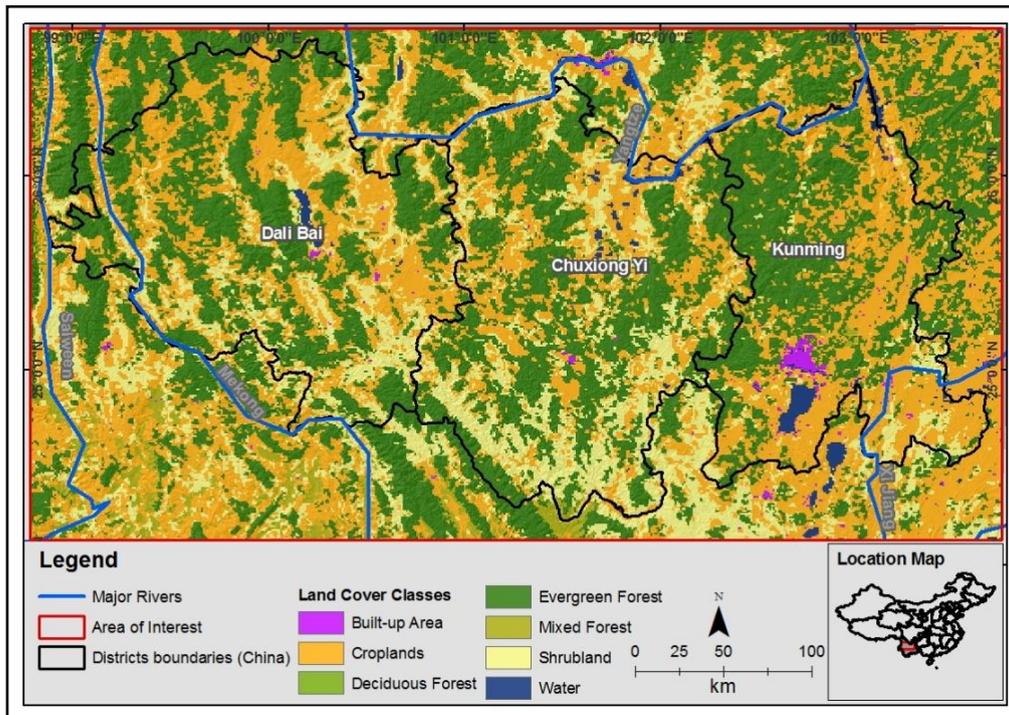
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This supplementary data supports the main text as follows:

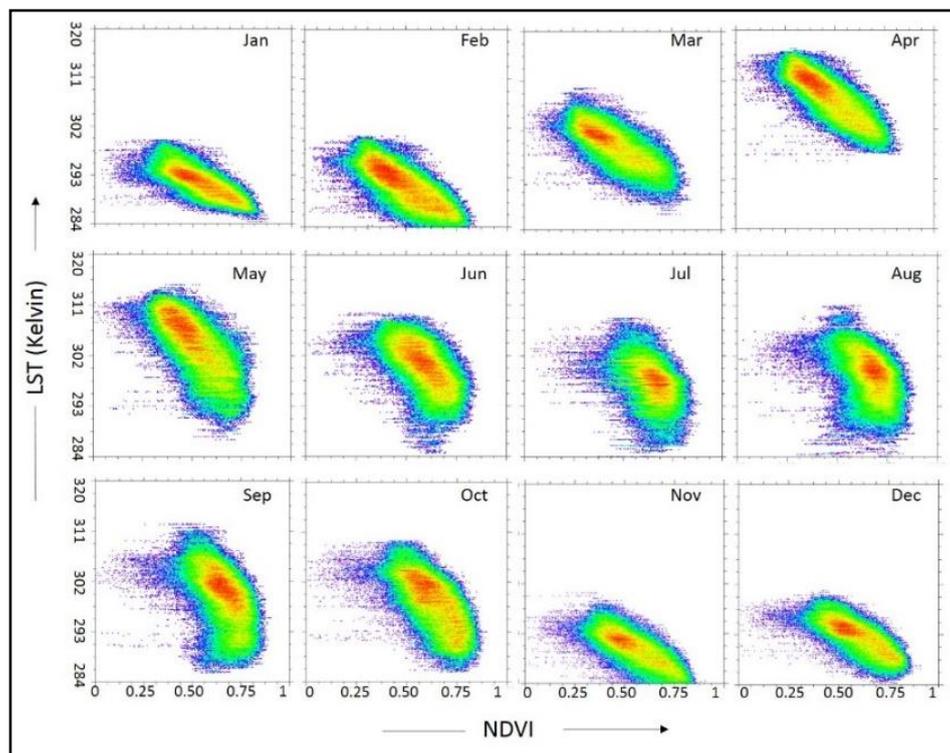
**Table S1.** Regression statistics between TRMM and *in-situ* rainfall estimates.

		Coef.	SE Coef.	t	p		
Regression Statistics	Constant	6.09	2.57	3	0.004		
	Slope	0.80	0.03	30	0.000		
	S	R <sup>2</sup>	R				
	14.10	0.94	0.97				
		Source	DF	SS	MS	F	p
Analysis of Variance (ANOVA)	Regression	1.0	201436.0	201436.0	912.7	0.000	
	Residual Error	58.0	12800.0	221.0			
	Total	59.0	214237.0				

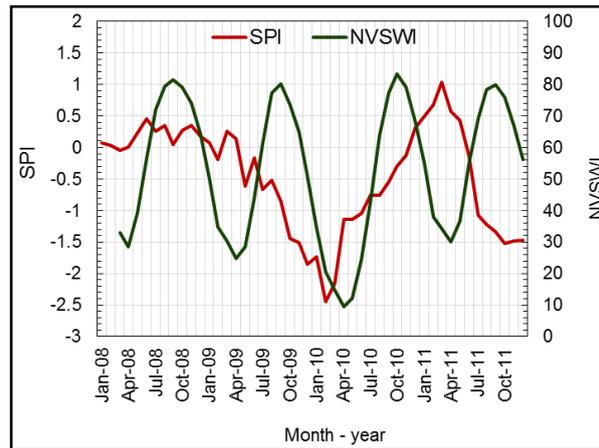
**Figure S1.** Land cover/land use map of the study area.



**Figure S2.** Density scatterplots between NDVI (x-axis) and LST (y-axis), indicating a dominant negative correlation across the year.



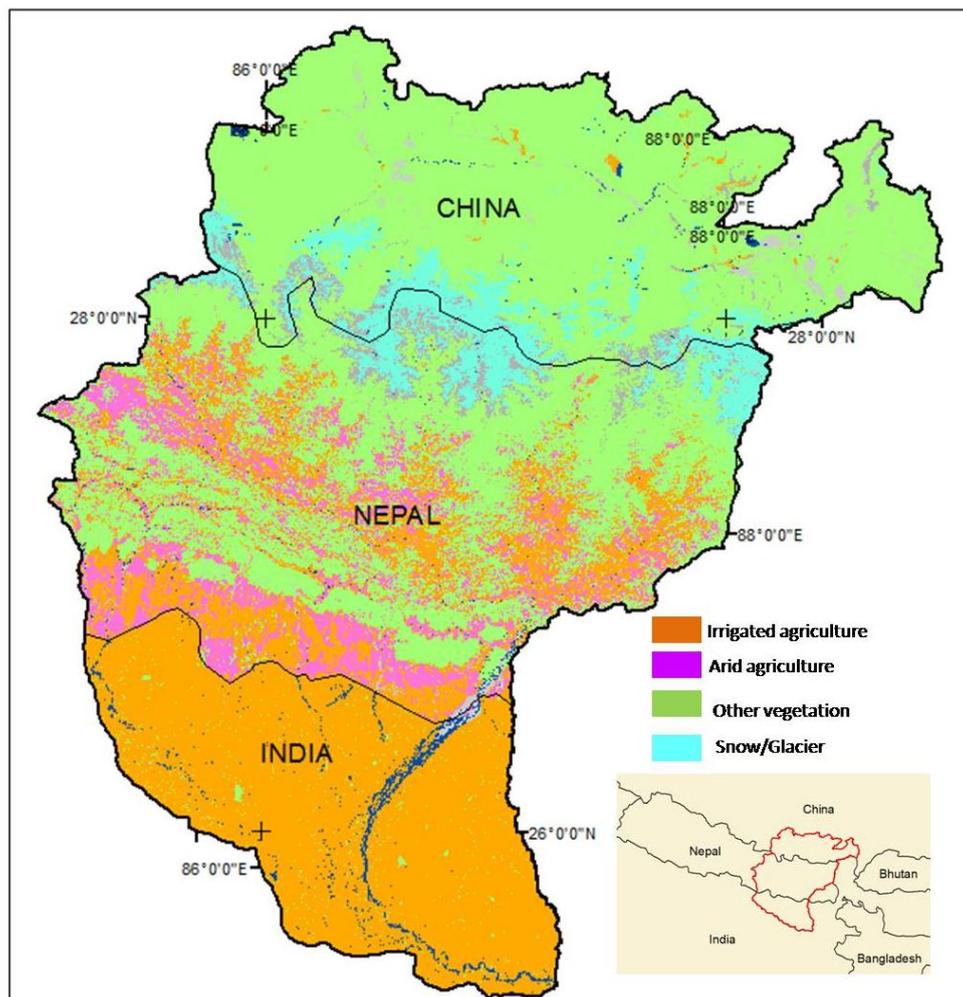
**Figure S3.** SPI and NVSWI time series plots.



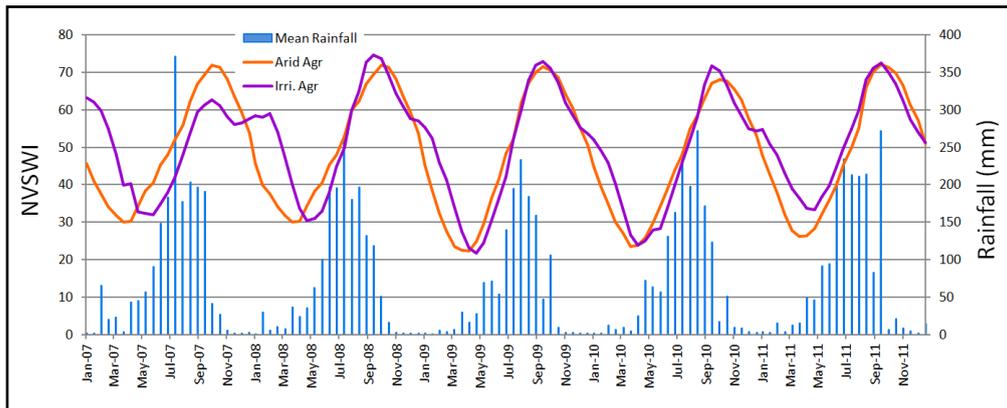
**Implementation of the Methodology in the Koshi River Basin in Himalayan Region**

In addition to the study area in central Yunnan, the index clearly indicate abnormal dry conditions during the winters 2008 to 2009, which is also known as a moderate drought year in the area.

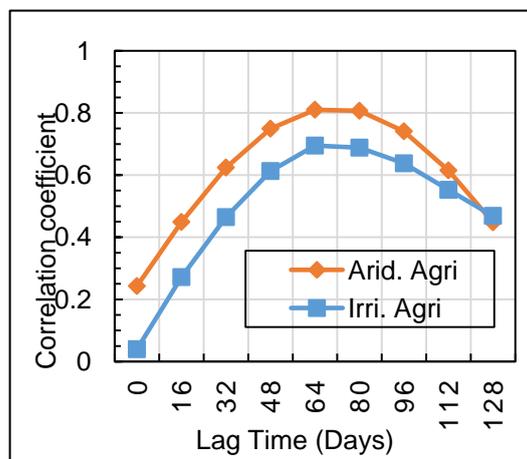
**Figure S4.** Location map of the additional study area (the Koshi River Basin).



**Figure S5.** Temporal patterns of moisture conditions in arid agriculture and irrigated agriculture area in the Koshi River Basin.



**Figure S6.** Moisture conditions and rainfall lag time relations in the Koshi River Basin.



**Figure S7.** Plots of NRD and SPI time series (left), NRD and NVSWI time series (right).

